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## Amendments to the Claims

Please amend the claims to read as follows:

- 1-50. (Cancelled)
- 51 (Currently Amended) An in vivo device comprising:

a plurality of optical windows behind <u>each of</u> which are positioned, at least, an illumination source and an imager, said optical windows facing different directions.

- 52. (Previously Presented) The device according to claim 51 wherein said windows are arranged in opposing directions.
- 53. (Previously Presented) The device according to claim 51 wherein each window is dome shaped...
- 54. (Previously Presented) The device according to claim 51 comprising a lens positioned behind the optical windows.
- 55. (Previously Presented) The device according to claim 51 comprising a lens positioned between an imager and an optical window.
- 56. (Previously Presented) The device according to claim 51 comprising a plurality of illumination sources and a plurality of imagers, wherein an illumination source and an imager are positioned behind each optical window.
- 57. (Previously Presented) The device according to claim 51 comprising a transmitter.
- 58. (Previously Presented) The device according to claim 57 wherein the transmitter transmits over a single channel.
- 59. (Previously Presented) The device according to claim 57 wherein the transmitter transmits over multiple channels.
- 60. (Previously Presented) The device according to claim 51 wherein the device is capsule shaped...
- 61 (Currently Amended) A system for in vivo imaging, said system comprising: an in vivo imaging device, said device containing within it at least:

a plurality of optical windows; and

a plurality of imagers and illumination sources facing different directions and an illumination source, at least

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one imager and illumination source behind each of the plurality of optical windows; and

an external receiver for receiving signals from the in vivo imaging device.

- 62 (Previously Presented) The system according to claim 61 wherein the in vivo imaging device comprises a transmitter.
- 63 (Currently Amended) A method for in vivo imaging of a body lumen, the method comprising the steps of:

illuminating in vivo sites from behind at least two optical windows; obtaining images of the in vivo sites from each of the at least two optical windows, there being behind each optical window at least an imager and an illumination source; and

transmitting signals from within the body lumen.

- 64. (Previously Presented) The method according to claim 63 comprising the step of illuminating the in vivo sites from different directions.
- 65. (Previously Presented) The method according to claim 63 comprising obtaining images of the in vivo sites from at least two imagers...
- 66. (Previously Presented) The method according to claim 63 comprising obtaining images from a front and from a rear of an in vivo imaging device.
- 67. (Previously Presented) The method according to claim 63 comprising transmitting signals over a radio channel.
- 68. (Previously Presented) An in vivo device comprising:
  - a plurality of illumination sources and a plurality of imagers; and a plurality of optical domes, behind each of which are positioned an illumination source and an imager, each of said optical domes facing opposite directions.
- 69. (Previously Presented) The device according to claim 68 comprising a lens positioned between an imager and an optical dome.
- 70. (Previously Presented) The device according to claim 68 comprising a transmitter.
- 71. (Previously Presented) The device according to claim 68 wherein said device is capsule shaped.